Investigation of the Nature of Catalysts Used in Isomerization and Polymerization of Hydrocarbons. II. On the Catalytic Properties of Silicic Acid.

507/79-29-6-62/72

catalytic activity at 155° rises 1300 times and is equal to the catalytic activity of loam. In such cases the Soviet industry uses 1% aluminum exide (occasionally 10%), so that the

a-pinene is isomerized even at +20°. These facts explain the easy isomerization of a-pinenes and other unsaturated hydrocarbons under the influence of silica gels; observed by some scientists, and confirm the theory of aluminum silicate catalization of V. Ye. Tishchenko and G. A. Rudakov. The experimental yeis of V. Ye. Tishchenko and G. A. Rudakov. The experimental results published in the paper at hand, show that silica gel without aluminum may be used for the chromatographic separation of unsaturated hydrocarbons. If technical gel, containing the aluminum oxide, is used, the aluminum silicate must be previously neutralized. It is yet unknown what effect this neutralization exercises upon the separation properties. The two tables show the properties of analyzed gels and for comparison used active loams, produced by the "Voskresenskiy khimkombinat" (Voskresensk Chemical Kombinat). The diagram shows the catalyte is isomerization rate of α-pinenes using various catalysts.

Card 2/3

Investigation of the Nature of Catalysts Used in Isomerization and Polymerization of Hydrocarbons. II. On the Catalytic Properties of Silicic Acid

There are 1 figure, 2 tables, and 22 references, 18 of which are Soviet.

ASSOCIATION: Teentral'nyv nauchnomical adovatel lakin leashbirth

Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (Central Scientific Chemical Research Institute for

Forestry)

SUBMITTED: May 29, 1958

Card 3/3

5 (3)

AUTHORS: Rudakov, G. A., Shestayeva, M. M.

SOV/79-29-6-70/72

TITLE:

On Catalytic Transformations of Terpenes (O kataliticheskikh prevrashcheniyakh terpenov). VIII. Isomerization Changes of Terpinolene in the Presence of Titanic Acid (VIII. Izomerizatsionnyye prevrashcheniya terpinolena v prisutstvii titanovoy

kisloty)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 2096 - 2100

(USSR)

ABSTRACT:

The isomerization changes of monocyclic terpenes in the presence of acids are usually considered as an irreversible process, which starts from dipentene (I) and passes through terpinolene (II) to α-terpenene (III) and y-terpenene (IV) A more detailed analysis makes this conception improbable. When acids affect (II), one must expect a simultaneous formation of ions of the carbonium (V) and (VI), or of the corresponding ethers of the α -terpineole and terpinene-4-ole, if the C-atoms 4 and 8 of terpinclene are equivalent in double bond. When the proton of (V) splits, the formation of an equilibrium mixture of 75% of dipentene (I) and of 25% of terpinolene (II) (Ref 1) is to

Card 1/3

be expected. When the proton of (VI) splits, an equilibrium

On Catalytic Transformations of Terpenes. VIII. Iso. SOV/79-29-6-70/72 merization Changes of Terpinolene in the Presence of Titanic Acid

mixture of hydrocarbons (III), (IV) and (II) should result. According to these conceptions, when heating the above named monocyclic terpenes with titanic acid, an equilibrium mixture consisting of (I), (III), (III) and (IV) is to be expected. (scheme 1). The present study should ascertain whether the reciprocal transformations (I) (II) really take place, the reversible transformation (II) (III) or (IV), not being taken provisionally into consideration. For this purpose the products of the catalytic changes of terpinolene (II), in presence of titanic acid at a temperature of 135°, were analyzed. In addition to the compounds (II), (III) and (IV) 10% of dipentenes (I) have also been found, which confirms the presence of the reversible transformations (I) \rightleftharpoons (II). Λ^3 -p-menthene and p-cymol have likewise been found. When the optically active limonene is subjected to the action of the catalyst then the presently proved reversible transformations lead to its racemization (scheme 2). In opposition to the hitherto existing admission, the racemization of limonene has: - due to the

Card 2/3

On Catalytic Transformations of Terpenes. VIII. Isc- SOV/79-29-6-70/72 merization Changes of Terpinolene in the Presence of Titanic Acid

reversible transformations (I) (II), the advantage over the racemization, due to the rearrangement on account of the double bond in the ring, even in a homogeneous medium. The transformation of the limonene into terpinolene is consequently a reversible reaction and apparently the principal cause of the racemization of limonene when heating with acid catalysts, especially if solid catalysts of the type of titanic acid, which are insoluble in limonene, are used. There are 2 figures and 9 references, 6 of which are Soviet.

ASSOCIATION:

Tsentral nyy nauchno-issledovatel skiy lesokhimicheskiy institut (Central Scientific Chemical Research Institute for

Forestry)

SUBMITTED:

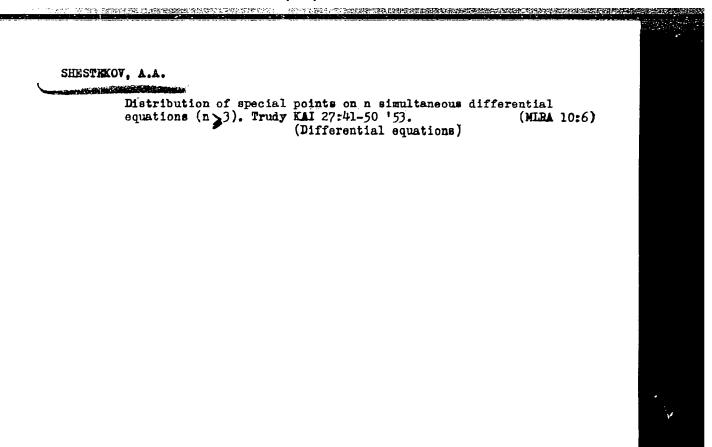
April 7, 1958

Card 3/3

RUDAKOV, G.A.; SHESTAYEVA, M.M.; IVANOVA, L.S.

Influence of the carriers on the course of the acid catalytic isomerization of pinene. Dokl. AN SSSR 162 no.6:1320-1322 Je '65. (MIRA 18:7)

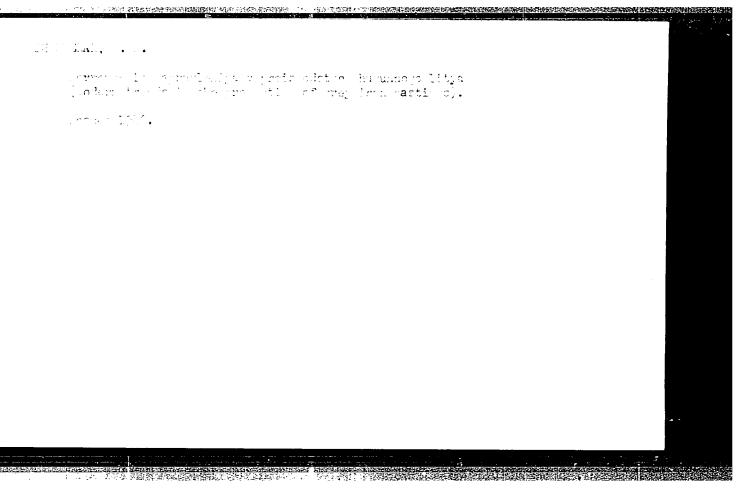
1. Institut nefte- i uglekhimicheskogo sinteza Irkutskogo gosudarstvennogo universiteta im. A.A.Zhdanova. Submitted December 9, 1964.



SHESTEL', A.P.

The system of socially useful productive work of students. Biol. v shkole no.5:67-70 S-0 '59, (MIRA 13:8)

1. Omskiy pedagogicheskiy institut. (Student activities)



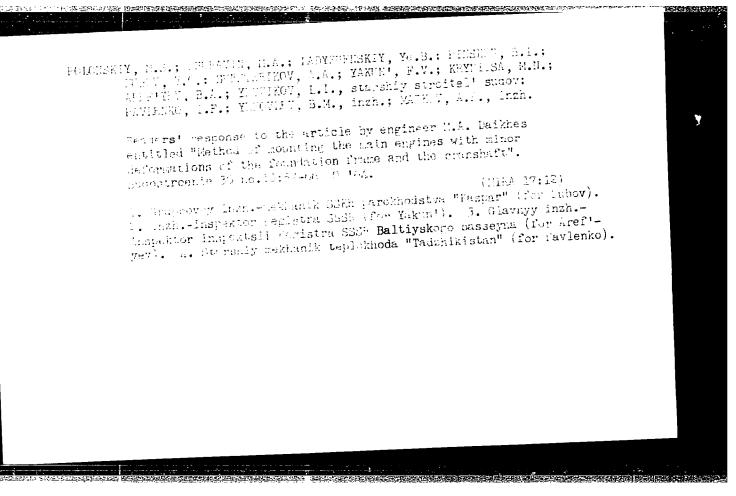
SHESTEPEROV, I.A.; RUDMITSKIY, M.A.

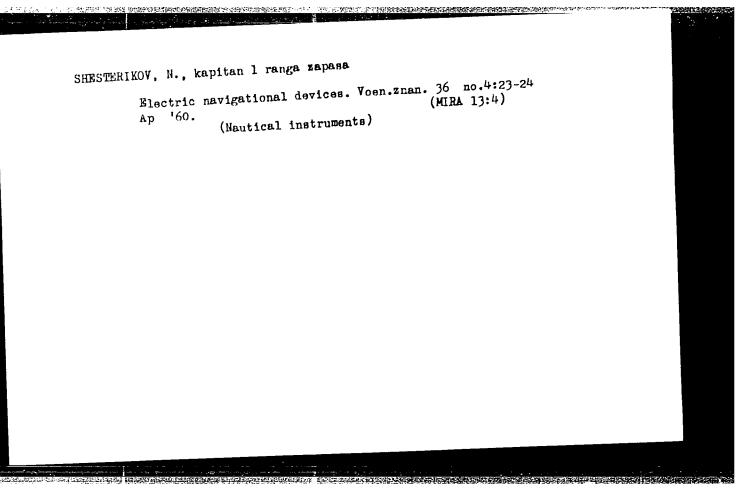
Reviews and bibliography. Okeanologiia 5 no.5:928-930
105.

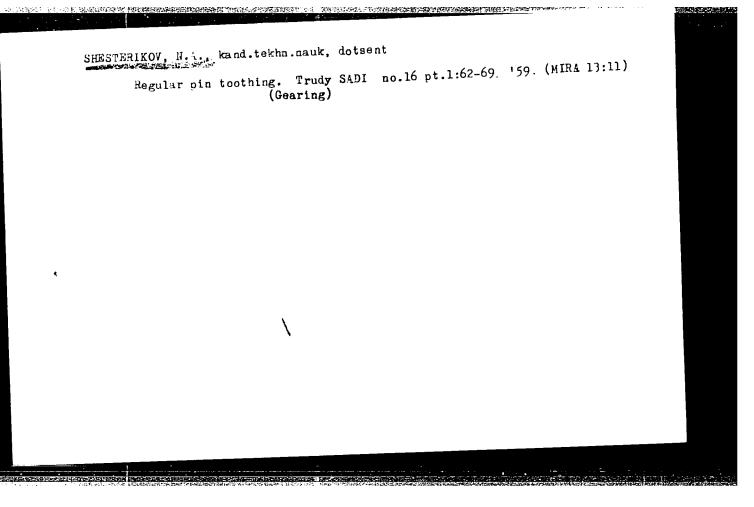
(MIRA 18:11)

SHESTERIKOV A.A., inzhener; KRYNITSA, M.N., inzhener.

Installation of medium-capacity marine reductors. Sudostroenie 22 (MIRA 10:2) no.12:30-34 D '56. (Marine engineering)







GLUSHKO, G.T., kand. tekhn. nauk; SHESTERIKOV, N.A., dots., kand. tekhn. nauk, otv. za vyp.

[Methods manual on the course "Theory of mechanisms and machines"] Uchebno-metodicheskoe posobie po kursu "Teoriia saratov. Pt.2. mekhanizmov i mashin." Sost. G.T.Glushko. Saratov. Pt.2. mekhanizmov i mashin." Sost. G.T.Glushko. Mira 17:4.

[MIRA 17:4]

[MIRA 17:4]

PENTIN, Yu.A.; TETERIN, E.G.; SHESTERIKOV, N.N.

Infrared spectroscopy method for determining tri-n-butyl phosphate and diisoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of and disoamyl ester of methylphosphonic acid in solutions of another methylphosphonic acid in solutions of another methylphosphoni

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INDIECY, E.M.; SCHOVEIN, A.S.; TEMPRIN, E.G.; SHESTFRIKOV, U.M.

Lenkwing in the system colf-wares-tri-nj-butyn
phosphate-diluent. Thur. meorg. whim. 6 no.12:2726-2728

[HILA 18:2]

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Deniging in the system ECHO, A.S.; TETLEIS, B.G.; CHRSTERIA V, N.N.

Demiging in the system ECHO, A.S.; TetleIS, B.G.; CHRSTERIA V, N.N.

dilaent. Zhor.neorg.khim. 16 no.111256441572 N 108.

(MURA 18:12)

1. Succeived Decamber 16, 1964.

CIA-RDP86-00513R001549130002-6 "APPROVED FOR RELEASE: 07/13/2001

DHESTERIKOV, N.P.

AID P - 2608

Subject

: USSR/Meteorology

Card 1/1

Pub. 71-a - 11/26

Author

Shesterikov, N. P.

Title

Experience in computing drift correction in the measurement of currents

Periodical

: Met i gidr, 4, 44-45, J1/Ag 1955

Abstract

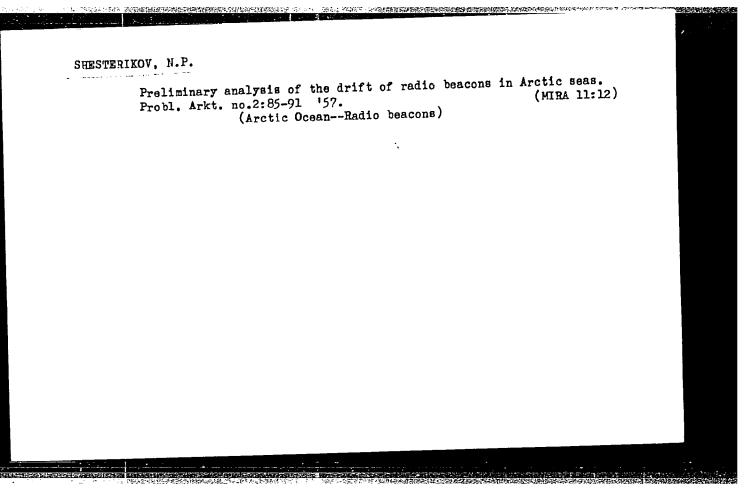
The measuring of currents from drifting ships is described and tables giving possible deviations for

5 and 10 m horizons are presented.

Institution:

None

Submitted : No date



SHESTERIKOV, N.P., mladshiy nauchnyy sotrudnik

Brief characteristics of land floe in the Davis Sea. Inform.
biul. Sov. antark. eksp. no.5:43-45 '59. (MIRA 12:10)

1.Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. (Davis Sea--Ice)

SHESTERIKOV, N.P., mladshiy nauchnyy sotrudnik; SHIL'NIKOV, V.I., mladshiy nauchnyy sotrudnik

Safety measures for cargo transportation on fast ice in the Mirnyy areas. Inform. biul. Sov. antark. eksp. no.7:26-30 '59 (MIBA 13:3)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

(Mirnyy region--Transportation, Automotive--Freight)

KLEPIKOV, V.V., kand. geogr. nauk; SHESTERIKOV, N.P., mladshiy nauchnyy sotrudnik

Currents observed at three diurnal stations in the coastal waters of eastern Antarctica. Inform. biul. Sov. antark. eksp. no.8:16-20 '59. (MIRA 13:3)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche im. admirala Makarova i Arkticheskiy i antzarkticheskiy nauchno-issledovatel'skiy institut.

(Antarctic regions-Ocean currents)

SHESTERIKOV, N.P., sladshiy nauchnyy sotrudnik

Currents in the coastal part of the Davis Sea. Inform. Biul. Sov.
antark. eksp. no.10:24-28 '59 (MIRA 13:3)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.
(Davis Sen--Ocean currents)

SHESTERIKOV, N.P., mladshiy nauchnyy sotrudnik

Sea level fluctuations in the Mirnyy region. Inform.biul.Sov.
(MIRA 13:5)
antark.eksp. no.11:29-32 '59.

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.
(Mirnyy region, Antarctica--Tides)

TRESHNIKOV, Aleksey Fedorovich, kand.geograf.nauk. Prinimeli uchastiye:

MATVEYCHUK, Georgiy Ivanovich; CHUPIN, Nikolay Petrovich; ARALOV,

Dmitriy Petrovich; TIKHOMIROV, Igor' Ivanovich, vrach-stomatolog;

MANSUROV, Sergey Mikhaylovich; KRICHAK, Oskar Grigor'yevich, kand.

geograf.nauk; SHUMSKIY, Petr Aleksandrovich, doktor geograf.nauk;

SHESTERIKOV, Nikolay Pavlovich, mladshiy nauchnyy sotrudnik, gidrolog. DROZHZHINA, L.P., tekhn.red.

[Second Continental Expedition, 1956-1958; general description]
Vtoraia kontinental naia ekspeditsiia, 1956-1958 gg.; obshchee opisanie. Pod red. A.F.Treshnikova. Leningrad, Izd-vo Morskoi transport, 1960. 205 p. (Sovetskaia antarkticheskaia ekspeditsiia, 1968).

1. Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. 2. Nachal'nik Vtoroy kontinental'noy ekspeditsii
(for Treshnikov). 3. Zamestitel' nachal'nika Vtoroy kontinental'noy
ekspeditsii po administrativno-khozyaystvennoy chasti; nachal'nik
beregovoy bazy (for Matveychuk).

(Continued on next card)

TRESHNIKOV, Aleksey Fedorovich --- (continued) Card 2.

4. Glavnyy inzhener Vtoroy kontinental'noy ekspeditsii (for Chupin).
5. Nachal'nik otryada svyazi i radionavigatsii Vtoroy kontinental'noy ekspeditsii (for Aralov). 6. Starshiy vrach Vtoroy kontinental'noy ekspeditsii (for Tikhomirov). 7. Nachal'nik geofizicheskogo otryada Vtoroy kontinental'noy ekspeditsii (for Mansurov). 8. Nachal'nik aerometeorologicheskogo otryada Vtoroy kontinental'noy ekspeditsii (for Krichak). 9. Nachal'nik glyatsiologicheskogo i vnutrikontinental'nogo otryada Vtoroy kontinental'noy ekspeditsii. 10. Nachal'nik otryada pribrezhnoy gidrologii Vtoroy kontinental'noy ekspeditsii (for Shesterikov).

(Antarctic regions--Russian exploration)

SHESTERIKOV, N.P., mladshiy nauchnyy sotrudnik

Effect of the heat resources of water on the freezing time of the Davis Sea and the adjacent part of the Indian Ocean. Inform. biul. Sov. antark. eksp. no.19:35-38 '60. (MIRA 13:9)

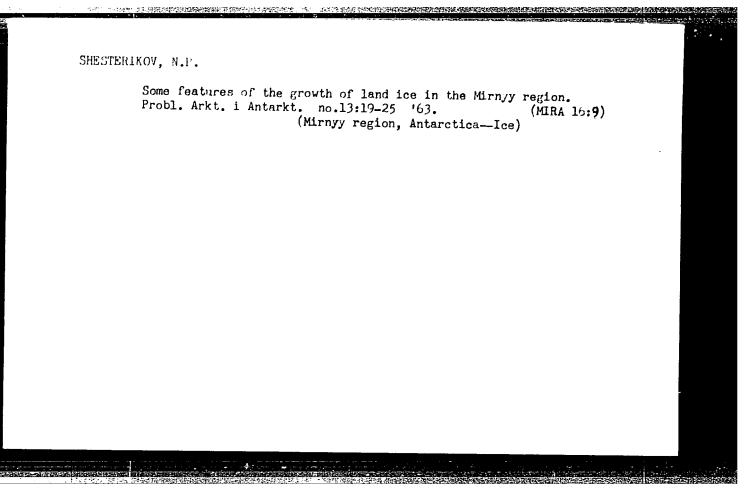
1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

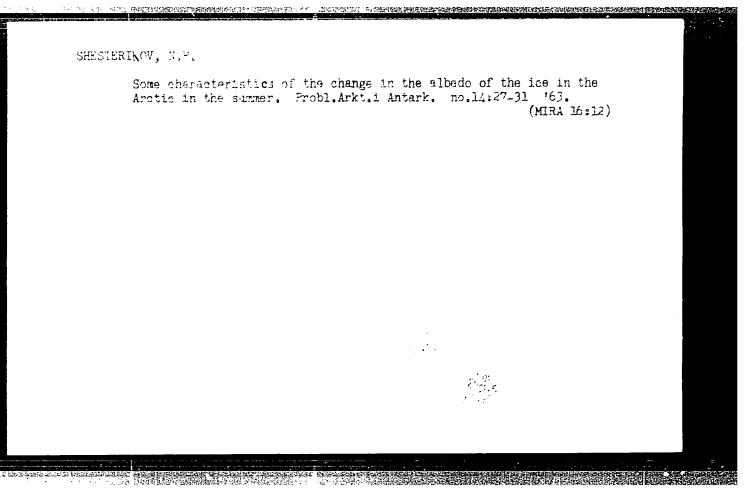
(Davis Sea--Sea ice) (Ocean temperature)

SHESTERIKOV, N.P.

Simplified method for computing heat resources of water in the Laptev Sea. Proble Arkt. 1 Antarkt. no.7:5-10 '61. (MIRA 14:10)

(Laptev Sea—Ocean temperature)





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SHESTERIKOV, N.F., kand.geograf.nauk; DUBROVIN, L.I., kand.geograficheskikh nauk

Tidal waves in the Lazarev Station region. Inform.biul.Sov.antark. eksp. no.44:39-42 '63. (MIRA 17:4)

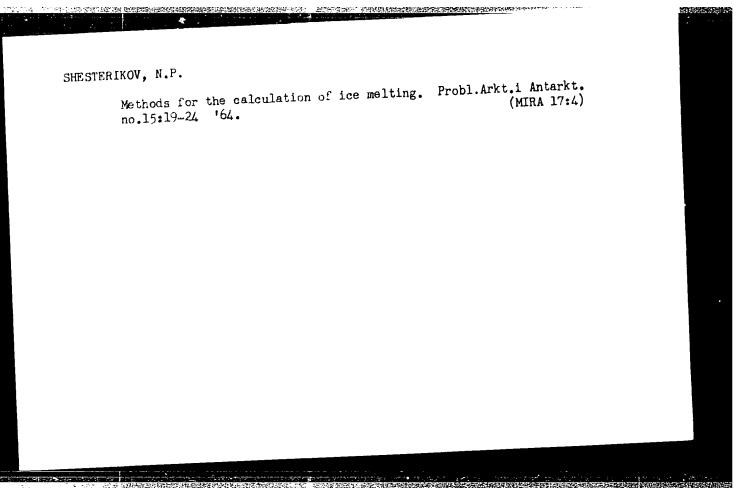
 Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

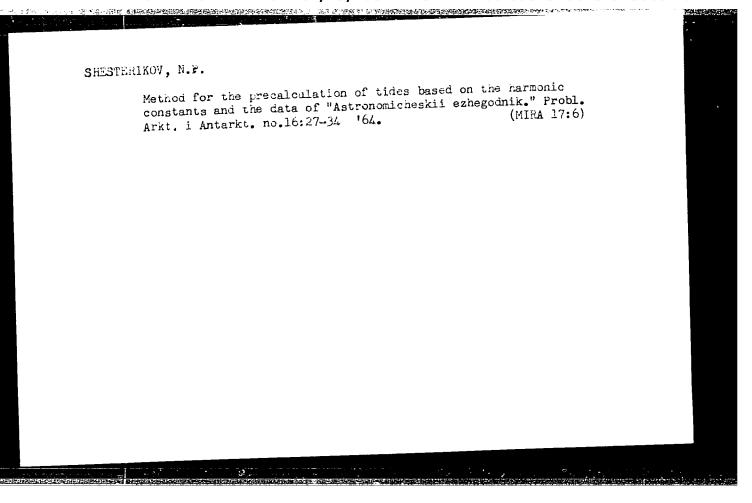
APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549130002-6"

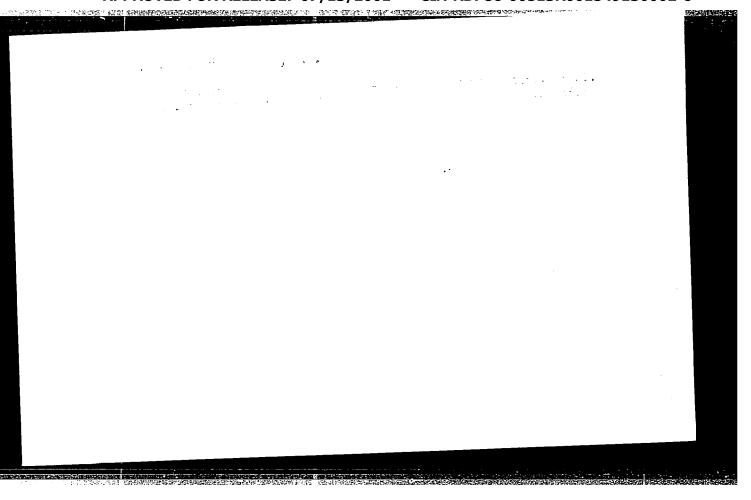
TITOV. V.B., kand.geograf. nauk, SUESTERIKOV, N.P., kand. geograf.
nauk

Bistribution and character of the tidal wave in the Southern
Ocean. Inform. biul. Sov. antark. eksp. no.47135-33 '64.
(MIRA 134A)

1. Arketnheskty i antarkticheskty nauchno-issiedovateliskty
institut.





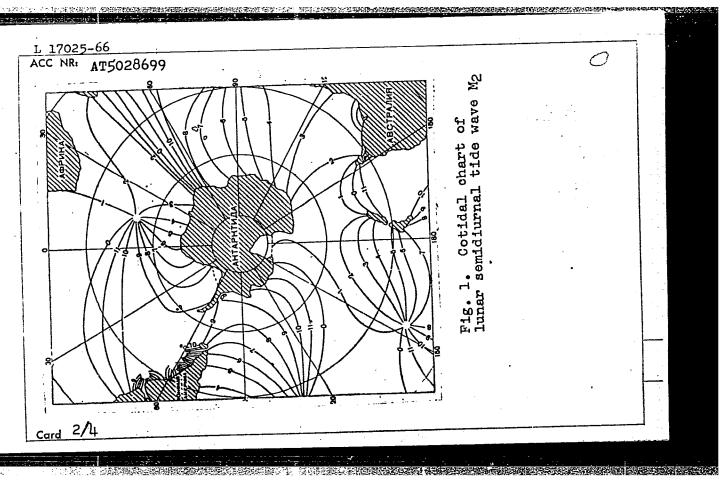


BUZUYEV, A.Ya.; SHESTERIKOV, N.P.; TIMEREV, A.A.

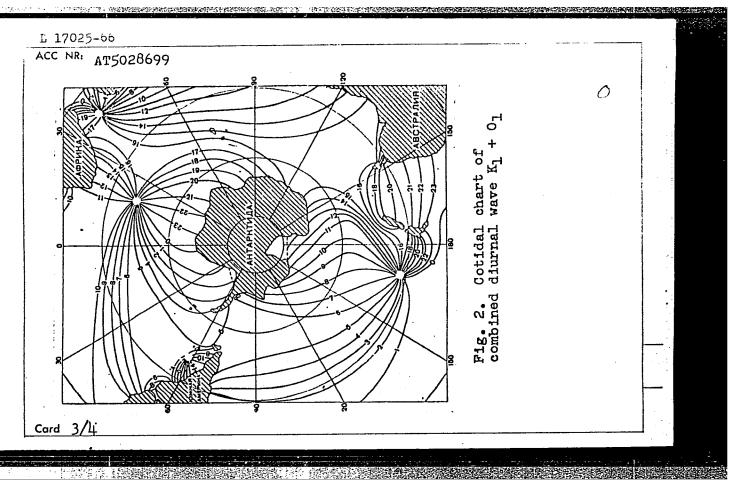
Albedo of ice in the Arctic seas according to data of aircraft observations. Probl. Arkt. i Antark. no.20:49-54 '65.

(MIRA 18:10)

	1888 (1861)
L 17025-66 EMT(1) GW SOURCE CODE: UR/3174/64/000/047/00 5/0039	
AUTHOR: Titov. V. B. (Candidate of Geographical Science); Shesterikov. N. P. (Candidate of Geographical Science)	
ORG: Arctic and Antarctic Scientific-Research Institute (Arkticheskiy i	
TITLE: Propagation and nature of the Antarctic Ocean tide wave	
SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955 Informatsionnyy byulleten'. no. 47. 1964. 35-39	
TOPIC TAGS: ocean tide, And the hydrography	
ABSTRACT: Cotidal charts of the Antarctic Ocean are presented based on data obtained at the Soviet Antarctic stations during IGY observations (see Figs 1 + 2). Formation of Antarctic tides is considered to tions (see Figs 1 + 2). Formation of Antarctic tides is considered to the result of interaction between the circumpolar tide wave traveled around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from more ling around Antarctica from east to west and waves appearing from east to	
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ORG: none

TITLE: Albedo of ice in Arctic Seas based on data of aircraft observations

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

Problemy Arktiki i Antarktiki. Sbornik statey, no. 20, 1965, 49-54

TOPIC TAGS: ice, sea ice, actinometry, aerial reconnaissance, optic albedo, arctic climate

ABSTRACT: Actinometric observations from aboard ice reconnaissance aircraft and a "flying meteorological observatory" were performed during the summer and fall of 1963. The actinometric observations were accompanied by a recording of the ice conditions, cloud cover, and atmospheric phenomena. Pyranometers and albedometers were installed on the aircraft. The total number of observations selected for analysis amounted to about 900. The observations were made in the western sector of the Arctic. It was found that the hummocked condition of ice somewhat lessens the albedo, however this relationship was not well pronounced. Drift ice and fast ice have practically the same albedo value if their degree of disintegration and contamination are identical. An analysis of the observations shows that the basic factor

Card 1/2

UDC: 551.322:535

CIA-RDP86-00513R001549130002-6" **APPROVED FOR RELEASE: 07/13/2001**

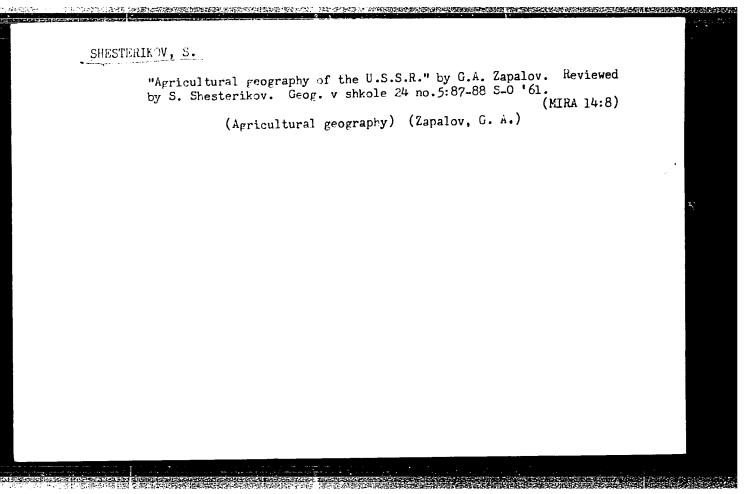
L 40838-66

ACC NR: AT6006701

determining the change of albedo of ice during the summer in the Arctic Seas is ice disintegration. As the ice melts the albedo of the snow-ice surface decreases from 75% at the starting period to 25% at maximal disintegration of the ice. Against a general background of a decrease of albedo a certain disruption of this tendency is observed at an ice disintegration value of 2-3 scale units (on a 5-point scale). At this period the albedo of the ice remains constant or even somewhat increases, which is explained by the fact that at this degree of disintegration drying of the ice occurs and the values of the albedo of the "dry" sections of ice and melt water on ice are substantially different. It is concluded, that the investigations confirmed the possibility of accomplishing actinometric observation from ice reconnaissance aircraft. An analysis of the material obtained shows that the data of the observations both with respect to standard instruments and to instruments specially fabricated for aircraft observations secure the same degree of accuracy in determining the albedo in the presence of an overcast sky. Orig. art. has: 1 table and 3 figures.

SUB CODE: 08/ SUBM DATE: 20Apr64/ ORIG REF: 003/ OTH REF: 000

Card 2/2/17)LP



SOV/124-58-5-5835 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 129 (USSR)

AUTHOR: Shesterikov, S.A.

TITLE: On the Problem of Stability in Creep (K voprosu ustoychiyosti

pri polzuchesti)

ABSTRACT: Bibliographic entry on the author's dissertation for the de-

gree of Candidate of Physical-Mathematical Sciences, presented to the MGU (Moscow State University), Moscow, 1957

ASSOCIATION: MGU (Moscow State University), Moscow

1. Metals--Stability

2. Metals--Creep

Card 1/1

SHESTERIKOV, S.A. (Moskva)

A variation principle applied to the theory of creep. Izv.AN SSSR
Otd.tekh.nauk no.2:122-123 F '57.
(Greep of materials)

STATE OF THE STATE		Deficiency to the
	/221/14/2 624.071.3 :624.073.1 :539.434 Stability of Rods and Plates Prikl.Mat.Mekh.	
	Yu.N. Rabotnov, S.A. Shesterikov U.S.S.R. An attempt is made to analyze the loss of stability of	
	buckling. The argument is based on the theory of strengthening according to which the process of	
	magnitude of plastic deformation. The stability of plates is discussed from the point of view of both the results compared. Bibl. 6.	
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30V/179-59-1-20/36

AUTHOR: Shepterikov, S. A. (Moscow)

FITTE: One Condition for the Laws of Greep (Ob odnom uslovii dlya zakonov polzuchesti)

FERTODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk Mekhanika i mashinostroyeniye, 1959, Nr 1, p 131 (USSR)

ABSTRACT: The condition is:

 $\frac{\partial^2 \varepsilon}{\partial \sigma^2} > 0 \quad \text{for} \quad t = t_1 = \text{const}, \text{ or } \frac{\partial^2 p}{\partial \sigma^2} > 0 \quad \text{for } t = t_1$ (1)

where ϵ = total deformation, p = plastic deformation and c = stress. The applicability of this condition when agehardening occurs is discussed. There is 1 Soviet reference

SUBMITTED Nevember 10, 1958.

Per 1/1

57612

24.4100

Shesterikov, S.A.

SUV/179-59-5-38/41

AUTHOR:

(Moscow)

TITLE ?

Thermal Stresses in an Elastic Disc of Constant Thickness

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959; Nr 5,

pp 177-179 (USSR)

ABSTRACT:

The Young's modulus of the material of an annular disc is assumed to vary exponentially with temperature, the Poisson's ratio is assumed independent of temperature. On these assumptions, the differential equation governing the displacements is set up and solved and expressions are derived for the stress components. There is 1 Soviet

reference.

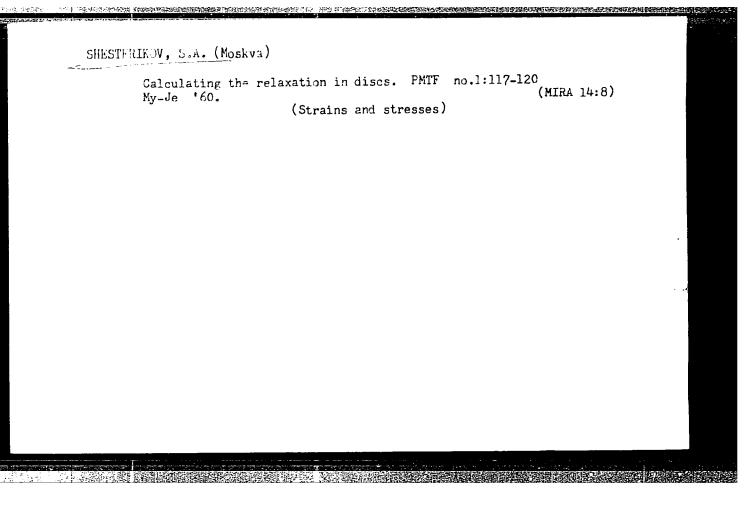
ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Kafedra teorii

plastichnosti (Moscow State University, Chair of Plasticity

Theory)

SUBMITTED: April 20, 1959

Card 1/1



SHESTERIK V. S.A. (Moskva)

Developing a theory of a perfectly plastic solid. Prikl.mat.i mekh. 24 no.3:412-415 My-Je'60. (MIRA 13:10)

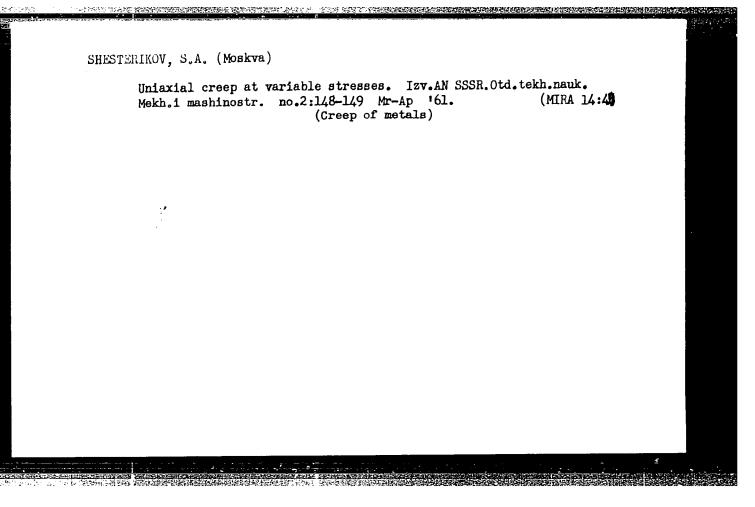
1. Moskovskiy gosudarstvennyy universitet. (Plasticity)

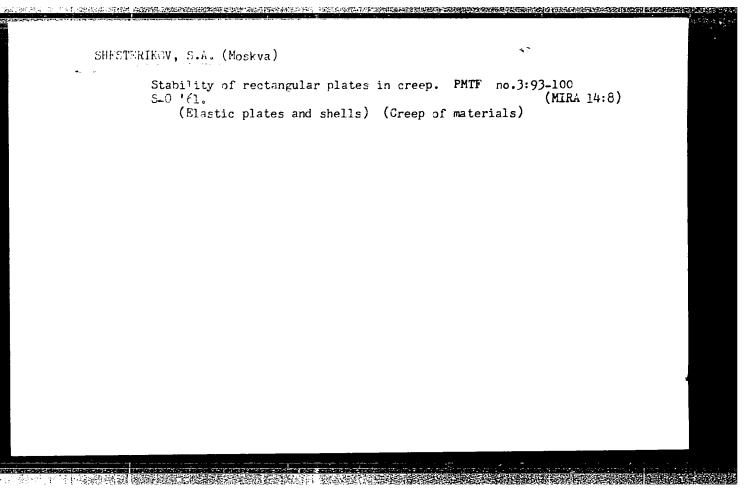
THE PROPERTY OF THE PROPERTY O

SHESTERIKOV, S.A. (Moskva)

Dynamics of the stability of rods in case of creep. PMTF
no.1:66.71 Ja - F '61.

1. Moskovskiy gosudarstvennyy universitet.
(Creep of materials) (Elastic rods and wires)





10-6000 1327

31251 S/207/61/000/005/011/015 D237/D303

AUTHOR:

Shesterikov, S.A. (Moscow)

TITLE:

Stability of plates during creep by flow theory

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,

no. 5, 1961, 100 - 108

TEXT: The author considers some general problems of buckling of plates during creep. Basic hypotheses of stress and strain conditions were formulated by Yu.N. Rabotnov and the author (Ref. 1: 1957, v. 21, no. 3) and the equation for bending was obtained PMM, 1957, v. 21, no. 3) and the equation for bending was obtained on the assumption that coefficients are independent of time. Here the same equation is derived without the above assumption and a possibility of initial bending is allowed for. Then, the behavior of the plate is investigated by quasistatic criterium of stability according to Yu.N. Rabotnov (Ref. 3: The theory of creep and its applications 'Plasticity'. Oxford-London-New York-Paris, Pergamon Press, 1960, 338 - 346). For the case of uniformly compressed plate

Card 1/3

31251 S/207/61/000/005/011/015 D237/D303

Stability of plates during creep ...

$$u - se^{-x} \int_{0}^{x} e^{x}u dx - 3se^{-(1+b)x-\alpha}x \int_{0}^{x} x^{\alpha} (1+b) e^{(1+b)x}u dx = k_{0}$$

$$g \equiv A\sigma_{i}^{n-1}p_{i}^{-\alpha}, \quad k_{0} = \beta u_{0} + m_{0}, \quad \beta = \frac{\sigma_{i}}{\sigma_{0}}$$
(2.2)

$$4(1-\beta)s=1, \quad w(t,x,y)=u(t)\varphi(x,y)$$

is obtained, which can, in general, be reduced to the Whittaker equation. An approximate solution is given for $\beta \simeq 1$ and $\beta \simeq 0$, followed by the discussion of buckling of the plate, again for $\beta \simeq 1$ and $\beta \simeq 0$. A rectangular plate freely supported and compressed in one direction is considered next and the equation obtained

 $a - \beta_1 (a + a_0) - (1 - s_1) e^{-x} \int_0^x a e^x dx - s_1 e^{-nx} x^{-x} \int_0^x x^a n e^{nx} a dx = 0$ (5.4)

Two cases of x small and x large are discussed. This is followed by a determination of critical state by the method of final bendings according to G.V. Ivanov (Ref. 4: PMTF, 1961, no. 3), for the Card 2/3

31251

\$/207/61/000/005/011/015 D237/D303

Stability of plates during creep ...

uniformly compressed plate, and for the plate compressed in one direction. There are 3 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Yu.N. Rabotnov, The theory of creep and its applications 'Plasticity', Oxford-London-New York-Paris, Pergamon Press, 1960, 338-346.

SUBMITTED: July 17, 1961

X

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549130002-6"

BRONSKIY, A.P.; KLYUSHNIKOV, V.D.; MAZINC, R.I.; RABOTNOV, Yu.N.;

SHESTERIKOV, S.A.

Dynamic strength of building materials at medium deformation rates. PMTF no.1:118-130 Ja-F '62. (MIRA 15:4)

(Deformations (Mechanics)) (Strength of materials)

SHESTERIKOV, S.A. (Moskve)

Approximate method for calculating creep buckling. PMTF no.5:
151-153 S-0 '63.

(MIRA 16:11)

SHESTERIKOV, S. A. (Moscow)

"The formulation of problems of stability and buckling in creep".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

ACCESSION NR: AP4026418

s/0055/64/000/002/0037/0040

AUTHORS: Lokoshchenko, A. M.; Shesterikov, S. A.

TITLE: On the slip line distribution in plastic deformation

SOUNCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mekhanika, no. 2, 1964, 37-40

TOPIC TAGS: slip line, ground end plane, shear stress, normal vector, applied stress, plastic deformation

ABSTRACT: The slip line direction distribution on the ground end plane of a specimen was solved with the assumption that the possible slip planes are arranged with equal probability relative to the maximum shear stress. The solution is given on the basis of representing a real material by a set of elements with ideal properties. Furthermore, it is assumed that the normal vector to the possible slip plane can make an angle with the applied stress between $\pi/4 - \xi$ and $\pi/4 + \xi$, $\pi/4$, with equal probability. On this basis, an expression is derived for the distribution of slip line directions $\pi/4$ at the ground end plane which for

Card 11/2

ACCESSION NR: AP4026418

 $\delta = 0$ reduces to the form

$$R(\psi) = \frac{2}{\pi \cos \psi / \cos 2\psi} \quad \text{at } 0 < \psi < \frac{\pi}{4};$$

$$R(\psi) = 0 \qquad \text{at} \quad \frac{\pi}{} < \psi \leqslant \frac{\pi}{}.$$

"The author is grateful to I. M. Gryaznov for his influence on this work." Orig. art. has: 5 formulas and 3 figures.

ASSOCIATION: Otdel plastichnosti NII mekhaniki MGU (Plasticity Branch NII Mechanics, MGU)

SUBMITTED: 29Dec62

SUB CODE: ME

NO REF SOV: 001

ENCL: 00

OTHER: 000

2/2

L 27815-66 EWT(m./EWP(w)/EPF(c)/EWP(1)/T/EWP(t)/EWP(b) RM/ID/M SOURCE CODE: UR/0207/65/000/005/0068/0075 ACC NR: AP5027273 AUTHORS: Barenblatt, G. I. (Moscow); Kozyrev, Yu. I. (Moscow); Malinin, N. I. 23 (Moscow); Paylov, D. Ya, (Moscow); Shesterikov, S. A. (Moscow) ORG: none TITLE: Vibrocreep of polymeric materials V ,	。 "我们是这一个是我们的特色,我们可以是我们是我们的是我们是我们的人们的对于我们的人们的,我们也是一个不是,我们也是一个不是一个不是一个不是一个不是一个不是一	
TOPIC TAGS: polymer, caprolyte, stress analysis, stress, stress measurement, creep, creep mechanism () ABSTRACT: This paper presents experimental data and theoretical discussion on the phenomenon of vibrocreep in polymeric materials. The experimental procedure completenesses of applying a vibratory stress to a specimen under a static stress and determining the resultant creep \mathcal{E} as a function of time. A schematic of the experimental mining the resultant creep \mathcal{E} as a function of time. A schematic of the experimental mining the resultant creep \mathcal{E} as a function of time as a presented graphically. The experimental results are compared with the theoretical expression $\mathcal{E}_{c} = \Psi\left\{\int_{0}^{\infty} \exp{-\frac{(U-\gamma_{0})}{RT}}dt\right\},$ where \mathcal{E}_{c} is the creep deformation, U - the energy of activation, σ - stress,	AUTHORS: Barenblatt, G. I. (Moscow); Kozyrev, Yu. I. (Moscow); Malinin, N. I. 23 (Moscow); Pavlov, D. Ya. (Moscow); Shesterikov, S. A. (Moscow)	
phenomenon of Vibrocreep III production of the experimental sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and sisted of applying a vibratory stress to a specimen under a static stress and str	TOPIC TAGS: polymer, caprolyte, stress analysis, stress, stress measurement, creep,	
where \mathcal{E}_{c} is the creep deformation, U - the energy of activation, σ - stress,	ABSTRACT: This paper presents experimental data and theoretical discussion on the phenomenon of vibrocreep in polymeric materials. The experimental procedure comphenomenon of vibrocreep in polymeric materials. The experimental sisted of applying a vibratory stress to a specimen under a static stress and determining the resultant creep £ as a function of time. A schematic of the experimental mining the resultant creep £ as a function of time. The experimental results are presented graphically. The experimental results are compared with the theoretical expression	
	where \mathcal{E}_{c} is the creep deformation, V - the energy of activation, \mathcal{E} - stress,	

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	ACC NR:	AP5027273
	T - tem Ψ is ti	perature, l ne transfor

re, R - the universal gas constant, Y - a constant, t - the time, and

 $\chi(e_c) = \int_0^c \frac{de_c}{F(e_c)} = \int_0^c \exp{-\frac{(U - \gamma \sigma) dt}{RT}},$

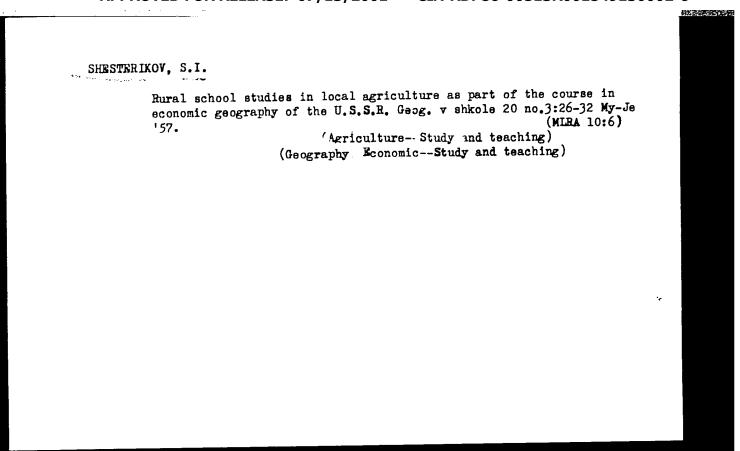
in which $F(\mathcal{E}_c)$ is given by $\frac{de_c}{dt} = F(e_c) \exp \frac{-(U - \gamma \sigma)}{RT}$,

after S. N. Zhurkov and T. N. Sanfirova (Temperaturnaya zavisimost' prochnosti chistykh metallov. Dokl. AN SSSR, 1955, t. 101. No. 2). It was found that the application of an oscillating stress causes an increase in the creep velocity in polymeric materials. The authors thank V. A. Volodchenkov, N. I. Gal'chin, Yu. S. Levshin, Yu. P. Maksimachev and V. V. Tikhomirov for their participation in the experiments. Orig. art. has: 4 graphs and 22 equations.

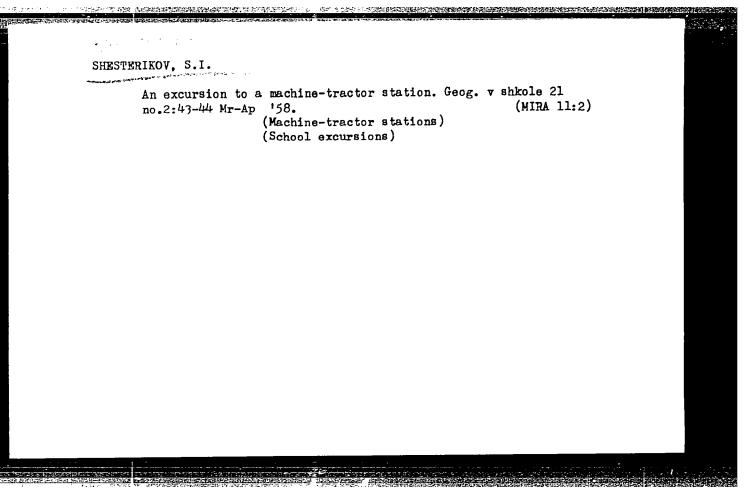
SUB GODE: OC/ SUBM DATE: 17Jun65/ ORIG REF: 013/ OTH REF: 005

Card 2/2 15

31407-66 EWT(m) ACC NR: AP6022573 SCURCE CODE: UR/0048/66/030/003/0413/0415 AUTHCR: Balalayev, V. A.; Dahelepov, B. S.; Medvedev, A. I.; Uchevatkin, I. F. Snestopalova, S. A. ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii) TITLE: New data on the spectrum of conversion electrons for the strongest transitions in Yo sup 170 /9 SCURCE: All SSSR. Izvestiya fizicheskaya, v. 30, no. 3, 1966, 413-415 TORIC TAGS: ytterbium, transition radiation, conversion electron spectrum, spectral line, electron energy level ABCTRACT: The availability of a new higher-energy source made it possible to study conversion electrons having energies above 3150 kev. The reference used was the K-conversion line of the transition 2955.2 kev. The spectrum from 2880 to 3150 kev was remeasured to confirm those made above 3150, inasmuch as the spectrum is complex and the K, L, and M lines of the various transitions overlap. Results of measurements above 3150 kev, given in a table, are essentially new. Six new transitions were found: 3224, 3245, 3263, 3287, 3302 and 3325. The latter is suggested as possibly the strongest transition in the spectrum. The authors thank K. Ya. Gromov and Zh. T. Zheleva for providing the sources. Orig. art. has: 1 figure and 1 table. GPRS/SUB CODE: 20/SUBM DATE: none/ORIG REF: 003



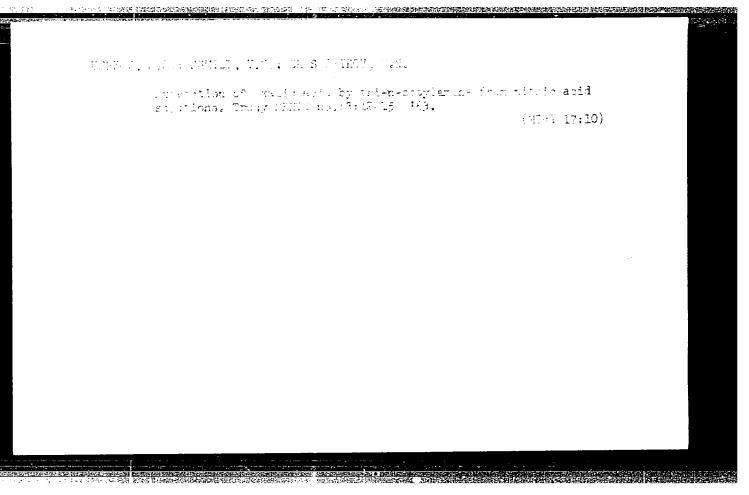
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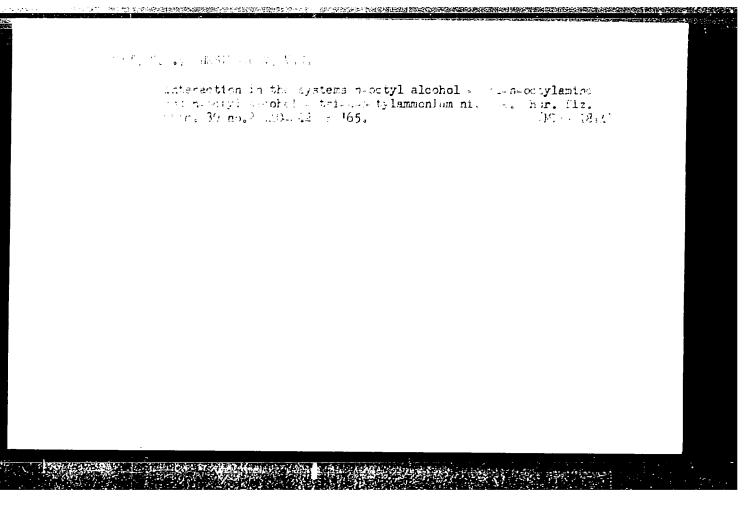


Improving methods for teaching the economic geography of foreign countries in the secondary school. Uch. zap. Ferm. gos. un. 15 no.2:119-126 '60. (MIRA 14:12) (Geography, Economic—Study and teaching)

SERY AKOV, N.I.; SHEYKINA, T.S.; PETROV, V.V.; IDBRIL', Z.Ya.; SHESTERIKOV, V.G.; PRONIN, V.M.; LYUBSKIY, G.S.; ISAKOV, I.K.; VOLODARSKAYA, V.Ye., red.

[Automated power supply guarantee systems for telecommunication apparatus] Avtomatizirovannye ustroistva garantirovannogo pitaniia apparatury sviazi; informatsionnyi sbornik. Moskva, Izd-vo "Sviaz'," 1964. 132 p. (MIRA 17:6)





L 35913-66 EWT(m)/EWP(j) RM/JW

ACC NR: AP6014897

SOURCE CODE: UR/0076/65/039/012/3007/3010

AUTHOR: Shesterikov, V. N.; Shmidt, V. S.

56

ORG: none

TITLE: Cryoscopic investigation of the reaction of aliphatic alcohols of different structure with tri-n-octylammonium nitrate in benzene

SOURCE: Zhurnel fizicheskoy khimii, v. 39, no. 12, 1965, 3007-3010

TOPIC TAGS: ammonium nitrate, aliphatic alcohol, chemical reaction, benzene, cryogenics

ABSTRACT: Chemically pure primary alcohols of normal structure were used in the investigation; their properties did not differ from those described in the literature. The tri-n-octylammonium nitrate was obtained by the reaction of equivalent amounts of 99.5% HNO3 and tri-n-octylamine. The temperature measurements were made by the standard method. Experimental results are shown in graphic form. It was found that in the reaction of methyl, ethyl, n-butyl, n-hexyl, n-octyl, and n-decyl alcohols with tri-n-octylammonium nitrate in benzene solutions, there are formed addition compounds of the composition

(n-C8H17)3 N. HNO 3 3ROH in the case of methyl and ethyl alcohols and Cord 1/2

ACC NR: AP6014897

(n-C₈H₁₇)₃N·HNO₃·2ROH in all the remaining cases. The instability constants were calculated for compounds of the composition (n-C₈H₁₇)₃N·HNO₃·2ROH. The values of the instability constant at 6 ± 2°C for compounds of buryl, hexyl, octyl, and decyl alcohols were found to be, respectively, 2.89; 2.74; 2.55; and 2.38. The instability constant for the compounds (n-C₈H₁₇)₃N·HNO₃·3C₂H₂OH was equal respectively to 5.25 and 3.88. There was established the existence of a linear relationship between the values of the instability constant for compounds of the composition (n-C₈H₁₇)₃N·HNO₃·2ROH and the number of carbon atoms in the alkyl chains of the alcohol. Orig. art. has: 2 formulas and 3 figures.

SUB CODE: 07/ SUBM DATE: 13Nov64/ ORIG REF: 006/ OTH REF: 005

。 第一章

USSR/Zooparasitology - Mites and Insects as Disease Vectors.

G-3

Abs Jour

: Ref Zhur - Biol., No 10, 1958, 43447

Author

: Almazova, V.V., Prokopenko, L.I., Shesterikova, Α.Α.,

Levitanskaya, P.B.

Inst

Title

: Composition by Age and Epidemiological Significance of Anopheles Maculipennis Population in Districts of the

Altai Region Near Ob.

Orig Pub

: Mcd. parazitol. i parazitarn. bolezni, 1957, 26, Nol, 61-

Abstract

: Data on composition by age and physiology of A. maculipennis in untrented settlements and settlements thoroughly treated by DDT in districts near Ob (of Pavlov region). The mosquitoes which wintered there, as well as the mosquitoes of the first summer generation during the 1953 and 1954 seasons exhibited no epidemiological significance.

Card 1/3

USSR/Zooparasitology - Mites and Insects as Disease Vectors.

G-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43447

Epidemiologically dangerous females were found only among mosquitoes of the second generation in August and September among females who went through 4-6 gonotrophic cycles. The age composition of the mosquitoes in untreated settlements was found to be comparatively low (the average physiological age of the gonoactive female was 1 gonotrophic cycle). Depending on the difference in meteorological conditions in 1953 and 1954, the proportion of epidemiologically dangerous females (on the average in one barn per scason) was 9.1% and 3.2%, respectively. In a settlement treated by DDT, with a larger average number of mosquitoes, the number of potentially dangerous females was 1/4 that in the untreated settlements. The treatment was effective despite its late execution and the presence of mosquitoes outside the buildings, as well as despite an adjacent untreated settlement. Times of the possible effective

Card 2/3

- 18 -

SHESTERIKOVA, L.; KOZHEVNIKOVA, T., redaktor; ZHURAVLEV, A., tekhnicheskiy redaktor

[Historical dates in Soviet aviation and aeronautics] Daty istorii otechestvennoi aviatsii i vozdukhoplavaniia. Moskva, Izd-vo DOSAAF, 1953. 281 p. (MIRA 7:9)

(Aeronautica—History)

ZAPOL'SKIY, G.N.; SHESTERIKOVA, L.I.; NARYSHKIN, V.A.; LEBEDEVA, Yu.A., red.; KARYAKINA, M.S., tekhn. red.

[Means and methods of civil air defense; an album of visual aids for units of the Volunteer Society for Assistance to Army, Air Force, and Navy studying civil air defense] Sredstva i sposoby protivovozdushnoi oborony naseleniia; al'bom nagliadnykh posobii dlia kruzhkov DOSAAF, izuchaiushchikh protivovozdushmuiu oboromu. Red. IU.A. Lebedeva. Khudozh. N.P. Tumanov. Moskva, Izd-vo DOSAAF, 1958. 39 p. (MIRA 11:7)

(Air defenses)

Kolkhozniku o MFVO (To the Collective Farm Worker Concerning Local Air Defense), by Yu. A. Lebedeva and L. P. Shesterikova, edited by V. D. Moskaleva, Moscow DOSAAF, 1956, 128 pp (from a standard card of the USSR State Library imeni V. I. Lenin, No 358.5)

"A popular discussion of chemical, bacteriological, and atomic weapons, and other methods of attack and destruction from the air included in the armament of the imperialist armies. Defensive measures and methods for liquidating the consequences of the attack are also discussed. The organization and problems of local air defense (MPVO) in the rural community are described. Basic rules for the behavior of the populace under threat of air attack are given." (U)

KORABLEV, Mikhail Dmitriyevich; LEBEDEVA, Yuliva Aleksendrovne; SHESTERIKOVA, Lyudmila Pavlovna; MIROSHVIKOVA, I.P., red.; KANEVSKAYA, M.D., red.; ANDRIANOV, B.I., tekhn.red.

[Local antiaircraft defense in rural areas] MPVO v sel'skoi mestnosti. Pod red. I.P.Miroshnikova. Moskva, Izd-vo DOSAAF, 1959. 198 p. (MIRA 13:1)

(Air defenses)

CATEGORY: USSR/PHYSICAL CHEMISTRY-SURFACE PHENOMENA. ADSORPTION. CHROMATOGRAPHY. ION EXCHANGE

ABS JOUR: REFERAT ZHUR -KHIMIYA, NO 9, 1957, 30218

AUTHOR: SAMSONOV, G.V., BRESLER, S. ya., VANSHEYDT, A.A., KUZNETSOVA, N.N. LAVRENT'YEVA, S.F., SHESTERIKOVA, M.P.

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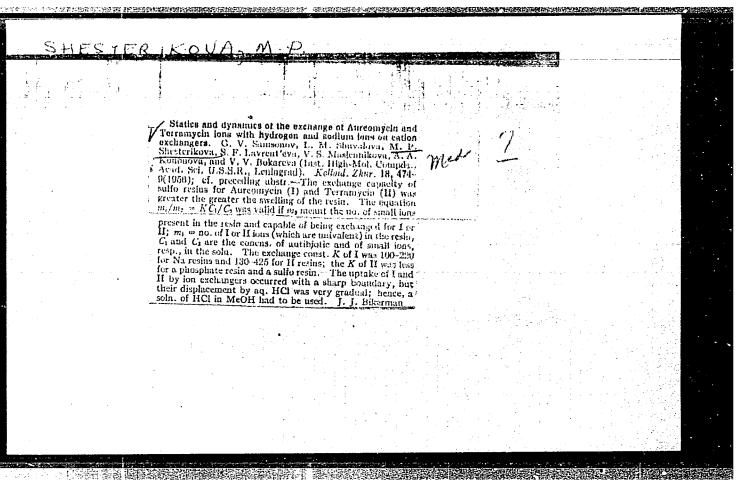
TITLE: SORPTION OF STREPTOMYCIN BY CARBOXYPHENOL RESINS

ORIG. PUB. ANTIBIOTIKI, 1956, 1, no5, 42-46

ABSTRACT: Trivalent cations of streptomycin (STR) are sorbed irreversibly at sulfocationites while with purely carboxylic cathionites (KFU AND KMT) absorption capacity for Str3* amounts to only 38 - 22% of their capacity for simple inorganic cations (Na+ AND Ca2+), evidently due to steric hindrances caused by excessively close distribution of carboxly groups. It was found, in accord with the theoretical assumption, that the readily swelling, capable of ion-exchange throughout their bulk, resins of the mixed carboxy-phenol type (KRFFU, KRFU, CZECHOSLOVAK ROA RESIN) of strongly reduced general excannge capacity (phenolic OH groups do not

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549130002-6"

participate in the exchange), exhibit considerably greater relative adsorption capacity for Str3+. It is shown that the constant of Str3+-Na+ exchange at carboxy-phenolic resins differs little from the constants at purely carboxylic resins.



A BOOK OF THE STATE OF THE STAT SAMSONOV, G.V.; LAVRENT'YEVA, S.F.; SHESTERIKOVA, M.P. Dynamics of streptomycin sorption by carboxyl resins in the presence of polyvalent metal ions [with summary in English] Antibiotiki, (MLRA 10:5) 2 no.2:32-35 Mr-Ap '57 1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningradskiy khimiko-farmatsevticheskiy institut. (STREPTOMYCIN dynamics of sorption by carboxyl resins in presence of polyvalent metal ions) (RESINS cerboxyl resins sorption of streptomycin, dynamics in presence of polyvalent metal ions) (IONS, eff. polyvalent metal ions,)

SAMSONOV, G.V.; DMITRENKO, L.V.; SIROTA, A.G.; GORYUNKOVA, A.D.; MOROZOVA, I.G.; KLIKH, S.F.; SHESTERIKOVA, M.P.

Purification of albomycin by using chromatographic method on sulfocationites. Antibiotiki 3 no.2:90-94 Mr-Ap '58. (MIRA 12:11)

l. Leningradskiy khimiko-farmatsevticheskiy institut, i Institut vysokomolekulyarnykh soyedineniy AN SSSR.

(ANTIBIOTICS,

albomycin, chromatographic purification with sulfocation exchange resistance (Rus))

(ION EXCHANGE RESINS.

sulfo-cation exchange resin SDV-3, chromatographic purification of albomycin (Rus))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549130002-6"

SAMSONOV, G.V., DMITRIYENKO, L.V., SIROTA, A.G., SHESTERIKOVA, M.P., LAVRENT'YEVA, S.F.

Physicochemical properties of albomycin [with summary in English] Biokhimiia 23 no.2:220-224 Mr-Ap '58 (MIRA 11:6)

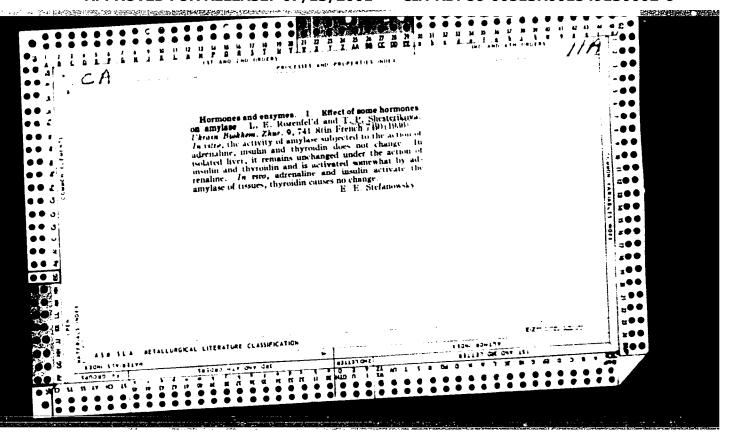
1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Khimikofarmatsevticheskiy institut, Leningrad. (ANTIBIOTICS. albomycin. physicochem. properties (Rus))

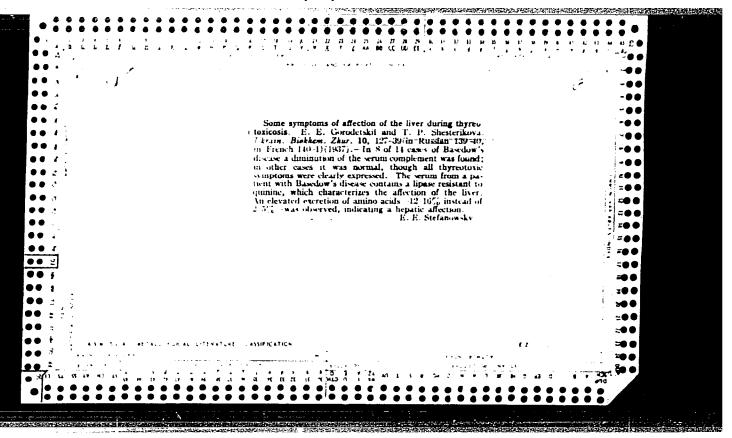
ORLOVA, G.A. [Orlova, H.A.]; CHERKASOVA, L.I.; SHESTERIKOVA, O.I.; SERGEYEVA, M.M.; TARASOVA, M.Kh.; KARUNSKIY, V.G. [Keruns kyi, V.H.]; MISHINA, Z.D.; LEBEDEVA, T.V.; ROZDYALOVSKIY, B.V. [Rozdialova kyi, B.V.]; DYMSHITS, L.S.; ZAYTSEV, A.B., glavnyy red.; SERGEYEV, N., otv. za vypusk; SERGEYEV, M.F., red.; BERGER, F., tekhn.red.

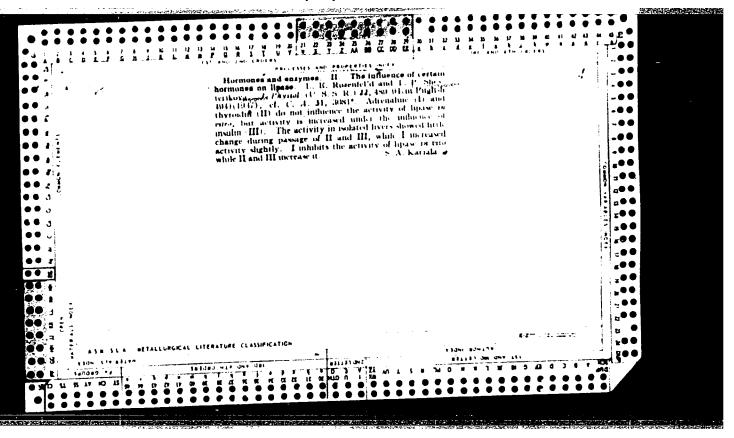
[Economy of Volyn' Province; a statistical manual] Narodne hospodarstvo Volyns'koi oblasti; statystychnyi zbirnyk. L'viv, Derzhstatvydav, 1958. 211 p. (MIRA 12:12)

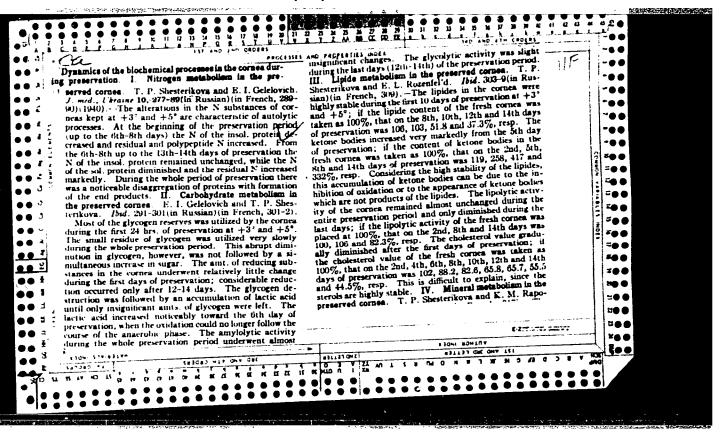
1. Volyn' (Province) Statystychne upravlinnia. 2. Statisticheskoye upravleniye Volynskoy oblasti (for all, except Sergeyev, N., Sergeyev, M.F.) 3. Nachal'nik Statisticheskogo upravleniya Volynskoy oblasti (for Zaytsev).

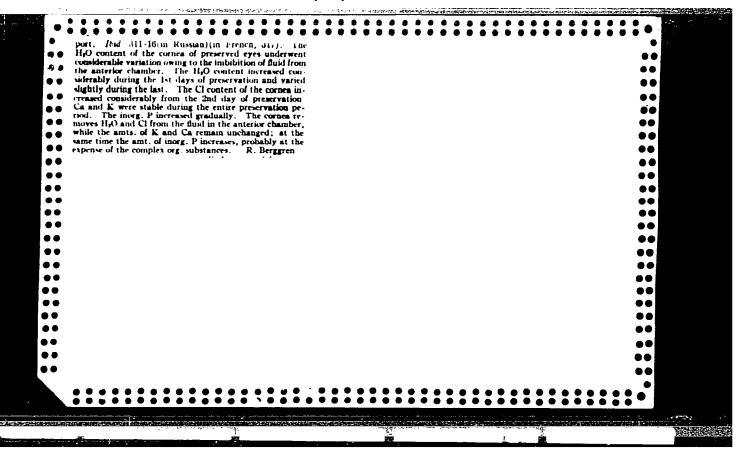
(Volyn' Province--Statistics)

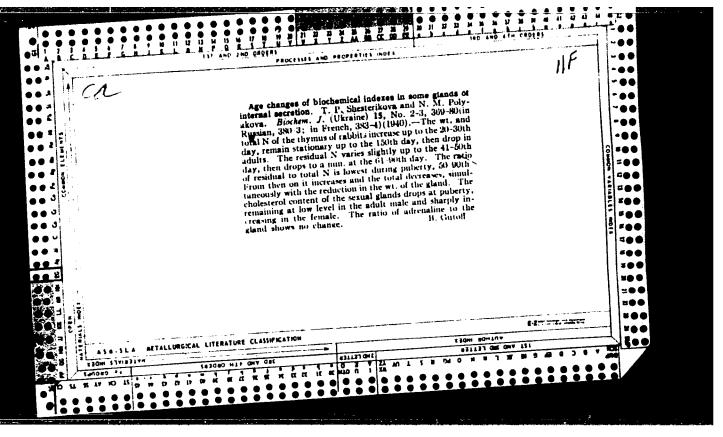


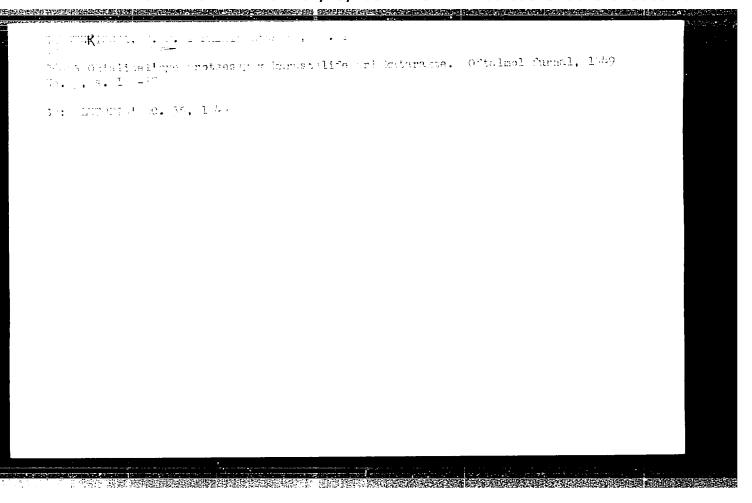












不是是有效的。这个人,这个人,这个人,这个人,这个人,这个人,这个人,我们就是这些人的,我们就是这个人的人,这个人,这个人,这个人,这个人,这个人,这个人,这个人,这个人

SHESTERIKOVA, T. P; YUZEFOVICH, Ye. K; CHERNYUK, V. P.

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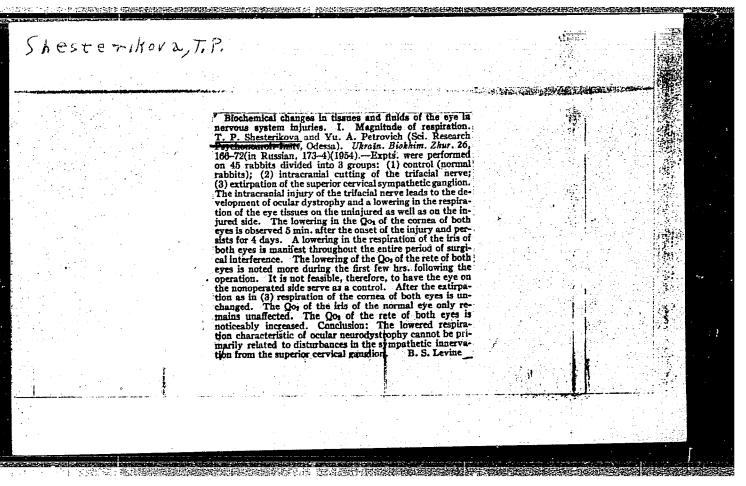
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May 25, 1954
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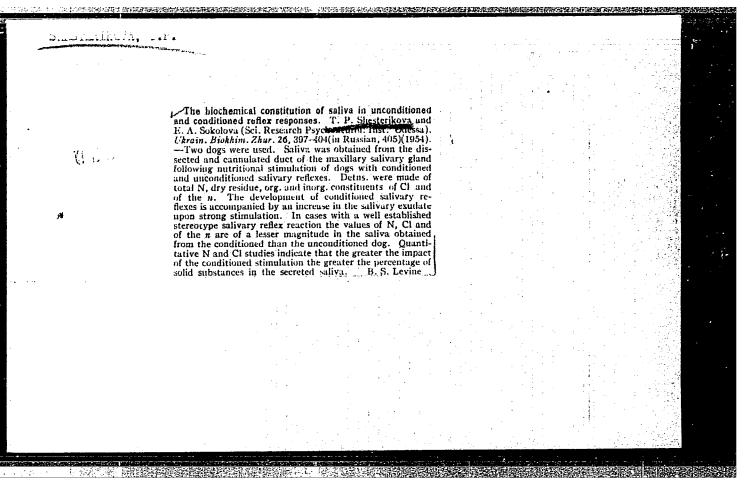
The influence of light and the exclusion thereof on the biochemical processes in the tissues of the eye. I. The influence of light and its exclusion on the respiratory quotient of the eye tissue. T. P. Shesterikova (Sci. Research Psychoneurol. Inst., Odessa). Ukrain. Biokhim. Zhur. 24, 87-94(in Russian, 9.-5)(1952).—The expts. were done mostly with rabbits, a few with pigs. Some of the eyes were continuously illuminated with 200-500 lux, naturally during the day and artificially during the night. Some eyes were continually kept in darkness, and the controls were under natural conditions (bright during the day dark during the night). The activity of the eyes was expressed as the respiratory quotient, Qo1, which was measured in a Warburg app. at 38°. The results were, under normal conditions, illumination, and in darkness, resp.: whole eye 1.055, 1.34, 1.066; iris 4.91, 5.95, 3.96; cryst. lens 0.288, 0.399, 0.293; retina 6.85, 10.17, 6.51. II. The influence of light and its exclusion on the amount of ascorbic acid in the tissues of the eye. E. V. Kresina and T. P. Shesterikova. Ibid. 90-100 (Russian summary, 101) (1952).—Rabbits were kept for 3-5 weeks under const. illumination, or in const. darkness, or under normal conditions (controls). The results (in mg. %) were, under normal conditions, illumination, and in darkness, resp.: whole eye 25.36, 26.64, 21.62; cornea 24.91, 31.84. 2.39; cryst. lens 15.34, 18.39, 13.76; vitrous humar 8.7, 12.00, 7.67; retina 18.22, 20.14, 17.96.

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